

DEPARTMENT OF CONSUMER & INDUSTRY SERVICES

DIRECTOR'S OFFICE

GENERAL INDUSTRY SAFETY STANDARDS

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These rules take effect 15 days after filing with the Secretary of State

(By authority conferred on the director of the department of consumer and industry services by sections 16 and 21 of Act No. 154 of the Public Acts of 1974, as amended, and Executive Reorganization Order No. 1996-2, being §§408.1016, 408.1021, and 445.2001 of the Michigan Compiled Laws)

R 408.13717 and R 408.13736 are rescinded.

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PART 37. ACCIDENT PREVENTION SIGNS AND TAGS

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GENERAL PROVISIONS

R 408.13701. Scope.

Rule 3701. This part provides specifications for the design, application and use of signs or symbols and tags to define or signal a specific hazard in, around or about a place of employment where the failure to designate the hazard could lead to an injury. This part does not apply to public air navigation, railroads, streets, highways, marine operations, radiation, and biological hazards.

R 408.13702. Applicability.

Rule 3702. An employer who has an established sign or tag system or policy on the effective date of this part which is equivalent to that prescribed in this part may continue with the policy or system if the key color prescribed in the rule is used. The key color:

- (a) Of danger is red.
- (b) Of caution is yellow.
- (c) Of safety is green.

R 408.13703. Definitions; A to D.

Rule 3703. (1) "Accident prevention sign" means the surface on which letters or markings are used to warn of a hazard, provide safety instructions or provide directions. An accident prevention sign may be temporarily or permanently affixed or placed.

(2) "Accident prevention tag" means the surface on which letters or markings are used to warn of an existing or immediate hazard and which is temporarily attached to a part of equipment or structure.

(3) "Caution sign or tag" means a sign or tag used to warn of a potential hazard or to warn against an unsafe practice.

(4) "Danger sign or tag" means a sign or tag used to signal an immediate hazard.

(5) "Do not start tag" means a tag used to tag out a starting mechanism which would cause a hazard if started.

R 408.13704. Definitions; E to S.

Rule 3704. (1) "Exit sign" means a sign used to designate a point of discharge from a room or building.

(2) "In-plant traffic sign" means a sign used to direct the safe use of a vehicle on plant property.

(3) "Out of order tag" means a tag used to indicate a machine is malfunctioning and its use might create a hazard.

(4) "Plant thoroughfare" means the company streets on plant property.

(5) "Safety instruction sign" means a sign used for general instruction or suggestion relative to safety.

R 408.13706. Employer responsibility.

Rule 3706. An employer shall provide, install and maintain signs and tags as prescribed by this part where an employee might be or would likely be injured if not alerted to the hazard.

R 408.13707. Signs generally.

Rule 3707. (1) The type or design of a sign shall be as specified in this part. Safety instruction, directional, and in-plant traffic signs in use before December 13, 1974 are excepted from the requirements of this part.

(2) A sign shall be furnished with rounded or blunt corners and shall be free of sharp edges, burrs, splinters, or other sharp projections. Fastening devices shall not create a hazard.

(3) A sign shall have colors as prescribed in table 1 of ANSI standard, Z53.1-1971, safety color code, which is adopted herein by reference and is available for inspection

at the Lansing office of the Department of Consumer and Industry Services. This standard may be purchased at a cost of \$3.00 from the American National Standards Institute, 1430 Broadway, New York, New York 10018, or from the Michigan Department of Consumer and Industry Services, 7150 Harris Drive, Box 30643, Lansing, Michigan 48909.

R 408.13708. Lettering.

Rule 3708. (1) a letter shall be block style, upper case for the upper panel, and upper or upper and lower case for the lower panel.

(2) Letter size shall be determined by the length of the message and maximum visibility and readability. See table 1 for a guide for minimum letter height at safe viewing distance.

(3) Table 1 reads as follow:

Table 1

Minimum Height of Letters (Inches)	Viewing Distance (Feet)
5	200-250
4½	150-200
4	120-150
3½	105-120
3	90-105
2½	75-90
2	60-75
1½	40-60
1	30-40
¾	20-30
½	10-20
¼	Less than 10

NOTE 1: Crowding of letters and words reduces legibility.

NOTE 2: A rule-of-thumb of 35-40 feet viewing distance per inch of letter height may be used for heights of letters greater than 5 inches.

R 408.13709. Sign placement and illumination.

Rule 3709. (1) An accident prevention sign shall be so placed:

- To alert and inform in time to avoid the hazard or to take appropriate action.
 - As to be legible, without distraction and not create a hazard in itself.
 - On a movable object or adjacent so that it will not be obscured when the object is moved.
- (2) An accident prevention sign shall be displayed with not less than 2 foot candles of illumination at or near the point of installation during hours when an employee would be present.

CLASSIFICATION OF SIGNS

R 408.13711. Danger signs.

Rule 3711. (1) A danger sign shall be used only where an immediate hazard exists. The sign shall be removed when the hazard is removed.

(2) A danger sign shall have the signal word "danger" in white within a red oval outlined in white on a black rectangular background in the upper panel. The lower panel where additional wording may be used shall be black or red letters on a white background. (See figure 1.)

(3) An employee shall be instructed that a danger sign indicates immediate danger and that special precautions are necessary.

(4) Figure 1 reads as follows:

Figure 1

Danger Sign



R 408.13713. Caution signs.

Rule 3713. (1) A caution sign shall be used to warn of a potential hazard or to caution against an unsafe practice.

(2) A caution sign shall have the signal word "caution" in yellow on a black background in the upper panel. The lower panel where additional wording may be used shall be black letters on a yellow background. (See figure 2.)

(3) An employee shall be instructed that a caution sign indicates a possible hazard and that proper precautions shall be taken.

(4) Figure 2 reads as follows:

R 408.13714. Exit signs.

Figure 2

Caution Sign



Rule 3714. (1) An exit sign shall be used as prescribed in subrule (3) of rule 685 and rule 686 of the general industry safety standards commission standard, Part 6. Fire Exits, being R 408.10685(3) and R 408.10686 of the Michigan Administrative Code, which is available from the Michigan Department of Consumer and Industry Services, 7150 Harris Drive, Box 30643, Lansing, Michigan 48909.

(2) An exit sign installed after December 13, 1974 shall consist of red or white letters on a contrasting red or white field. An internally illuminated sign shall consist of translucent letters either red or white on a contrasting background of red or white. The background may be either opaque or translucent.

(3) A directional arrow used on an exit sign shall be the same color as the word "exit."

R 408.13715 Safety instruction signs.

Rule 3715. (1) A safety instruction sign shall be used for a general instruction or suggestion relative to safety measures.

(2) A safety instruction sign shall have the signal word in white on a green background in the upper panel. The lower panel where additional wording may be used shall be black letters on a white background.

R 408.13716. Directional signs.

Rule 3716. (1) A safety related directional sign shall have a white arrow on a black upper panel with the lower panel white and any letters in black.

(2) A directional arrow used on a danger, caution, and safety instructional sign shall be black.

R 408.13718. Rescinded.

SYMBOLS

R 408.13721. Emblem for slow-moving vehicles.

Rule 3721. (1) An emblem, as prescribed in figure 3, shall be used on the rear of a vehicle used on a public road which, by design, moves at 25 miles per hour or less outside a building. Such an emblem shall not be used as a clearance marker for wide machinery or as a replacement for required lighting. Advertising or other markings shall not be placed on it.

(2) This emblem shall consist of a fluorescent yellow-orange triangle with a dark red reflective border. (See figure 3.) It shall be entirely visible in daylight and at night from all distances between 600 and 100 feet from the rear when directly in front of the lawful upper beam of the headlamps.

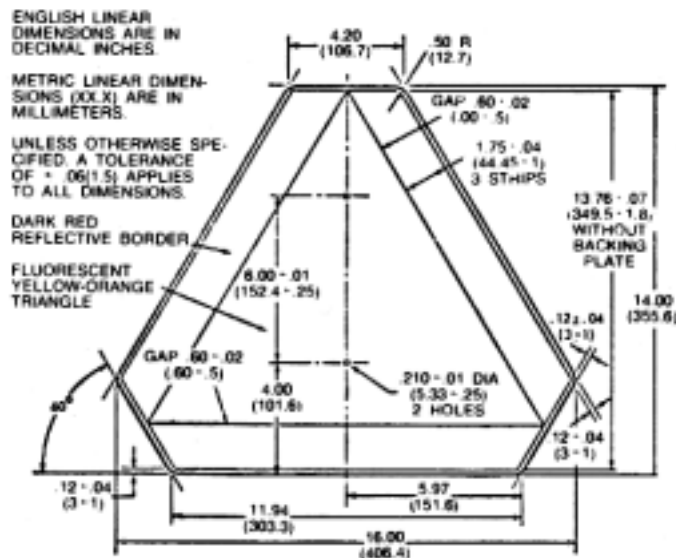
(3) The emblem shall be mounted, point up, in a plane perpendicular to the direction of travel, plus or minus 10 degrees. It shall be placed centrally at the rear of the vehicle, unobscured, and 2 to 6 feet above the ground measured from the lower edge of the emblem. It shall be securely attached to the vehicle.

(4) The requirements for color and reflectivity, durability, and test procedures shall be as prescribed in SAE-J493, slow moving vehicle identification emblem, which is adopted herein by reference and is available for inspection at the Lansing office of the Department of Consumer and Industry Services. This standard may be purchased at a cost of \$1.50 from the Society of Automotive Engineers, Inc., 2 Penn Plaza, New York, New York 10001, or from the Michigan Department of Consumer Industry Services, 7150 Harris Drive, Box 30643, Lansing, Michigan 48909.

(5) Figure 3 reads as follows:

Figure 3

Identification Emblem



Total Units Printed:	3,000
Total Printing Cost:	\$191.80
Cost Per Unit:	\$0.063

TAGS

R 408.13731. Tags generally

Rule 3731. (1) An accident prevention tag shall be used as a temporary means of warning an employee of an existing hazard, such as defective tools or equipment. A tag shall not be used in place of an accident prevention sign or considered a complete warning method.

(2) A tag shall be affixed by string, wire, or adhesive.

(3) A tag shall be large enough to attract attention to the hazard, with the minimum letter size for the signal word in perspective to a safe viewing distance in accordance with R 408.13708.

(4) The signal word shall be in bold type.

(5) There should be no variation in the type of design of tags posted or hung to warn of a specific hazard.

(6) A tag shall be protected, or be of such material to last and maintain legibility during the assignment of the tag.

R 408.13732. “Do not start” tags.

Rule 3732. A “do not start” tag shall be used to tag out the starting mechanism of equipment that would cause a hazardous condition if activated, unless it is locked out.

R 408.13733. "Danger" tags.

Rule 3733. A “danger” tag shall be placed where an immediate hazard or probability of injury exists.

R 408.13734. "Caution" tags.

Rule 3734. A “caution” tag shall be used to warn of a potential hazard or to caution against an unsafe practice.

R 408.13735. “Out of order” tags.

Rule 3735. An “Out of order” tag should be used only for the specific purpose of indicating that equipment or machinery is out of order and that its use might create a hazard.

R 408.13736. Rescinded.